

Appln No. 10/728,935
Amdt. Dated July 27, 2005
Response to Office Action of July 11, 2005

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A printhead assembly which comprises
an elongate support structure; and
an ink feed member positioned in the support structure, the feed member defining a number of ink channels, the ink channels extending in the direction of the support structure and being in fluid communication with an ink supply, the ink feed member having a plurality of outlet openings from which ink can be fed;
at least one printhead module positioned along a length of the ink feed member, the, or each printhead module comprising
an ink delivery assembly that is positioned on the ink feed member, the ink delivery assembly defining a mounting formation, a plurality of ink inlets that are in fluid communication with the outlet openings of the ink feed member, a plurality of exit holes and tortuous ink flow paths from each ink inlet to a number of respective exit holes; and
an elongate printhead chip that is mounted on the mounting formation, the printhead chip incorporating a plurality of nozzle arrangements that extend along a length of the chip, the printhead chip being positioned so that the ink can be fed from the exit holes to the printhead chip.
wherein each ink delivery assembly includes a pair of micro-moldings that are positioned so that a lower micro-molding is interposed between an upper micro-molding and the ink feed member, the lower micro-molding defining a plurality of ink chambers in fluid communication with respective outlet openings of the ink feed member, via the ink inlets, and the upper micro-molding defining the exit holes in fluid communication with the ink chambers.
2. (Original) A printhead assembly as claimed in claim 1, in which the support structure is in the form of an elongate channel member and the assembly includes a plurality of printhead modules positioned in a channel defined by the channel member.
3. (Original) A printhead assembly as claimed in claim 2, in which the elongate channel member is of a nickel iron alloy that is annealed to enhance dimensional stability.

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4. (Original) A printhead assembly as claimed in claim 2, in which each ink feed member is in the form of an extrusion of an elastomeric material, the channels extending longitudinally in the extrusion and the outlet openings being holes defined in a surface of the extrusion to be in fluid communication with respective ink channels.

5. (Cancelled).

6. (Currently Amended) A printhead assembly as claimed in claim 51, in which the micro-moldings are both of a liquid crystal polymer.

7. (Currently Amended) A printhead assembly as claimed in claim 51, in which the ink delivery assembly includes a film member that is interposed between the upper and lower micro-moldings, the film member defining a plurality of openings to permit the passage of ink and the film member also having an adhesive layer on both sides of the film member so that the film member serves to provide adhesion between the micro-moldings.

8. (Currently Amended) A printhead assembly as claimed in claim 51, in which the ink feed member defines an air channel and the ink delivery assembly defines an air path that terminates at an exhaust hole defined by the upper micro-molding so that air driven through the ink delivery assembly from the air channel serves to repel a print medium from the printhead module during a printing operation.